SMIRNOVA, I. V.

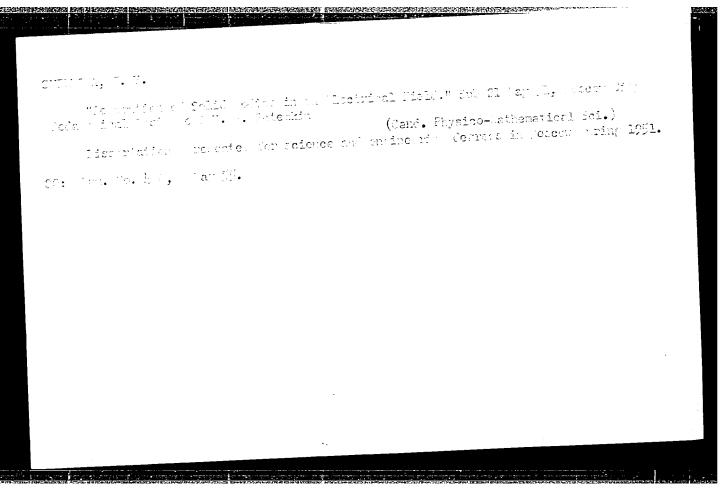
USSR/Engineering - Refractories, Slag Erosion Feb 50

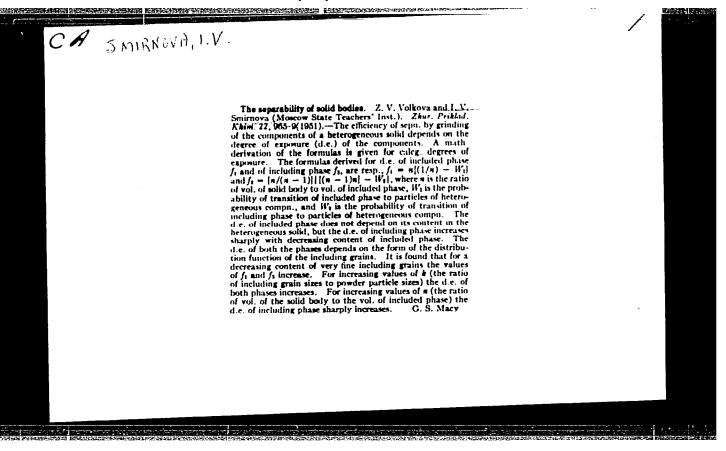
"Solubility of Alumina-Silicate Refractories in Basic Slag," D. N. Poluboyarinov, Dr Tech Sci, I. V. Smirnova, Chair of Ceramics and Refractories of MKhTI imeni Mendeleyev

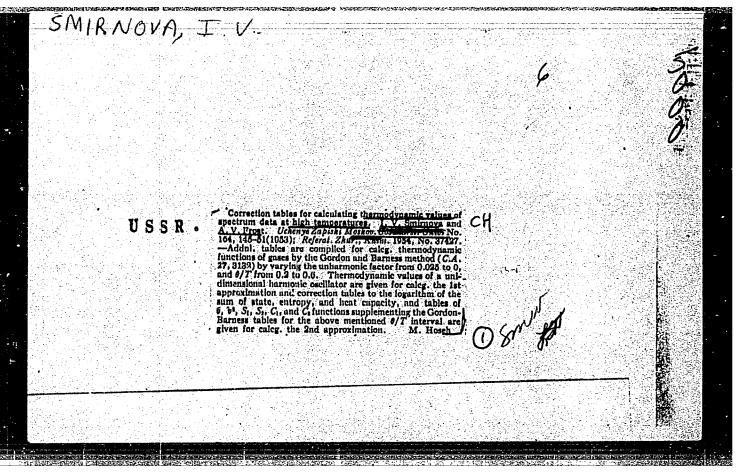
"Ogneupory" No 2, pp 71-81

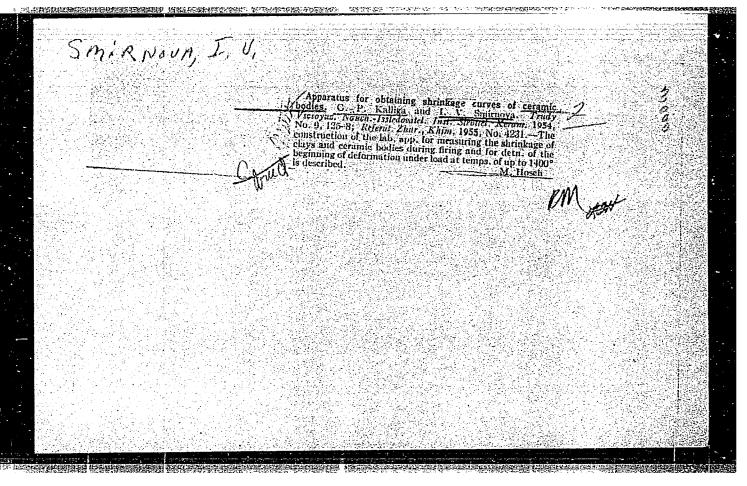
Develops method for evaluating soly extent of refractory materials in slag in respect to time of their interaction, and for detg soln rate. Deg and rate of slag erosion decrease with increase of ${\rm Al}_2{\rm O}_3$ content in refractory.

204T19









FROST. Andrey Vladimirovich, professor; DOLGOPOLOV, N.N., sostavite. TOPCHIYEVA, K.V., doktor khimicheskikh nauk, otvetstvennyy redaktor; GERASIMOV, Ya.I., redaktor; KOROBOV, V.V., kandidat khimicheskikh nauk, redaktor; SMIRNOVA, I.V., kandidat khimicheskikh nauk, redaktor; TETEVSKIY, V.M., doktor khimicheskikh nauk, redaktor; TILICHEYEV, M.D. doktor tekhnicheskikh nauk, redaktor; SHCHEKIN, V.V., redaktor izdatel%stva; ZELENKOVA, Ye.V., tekhnicheskiy redaktor

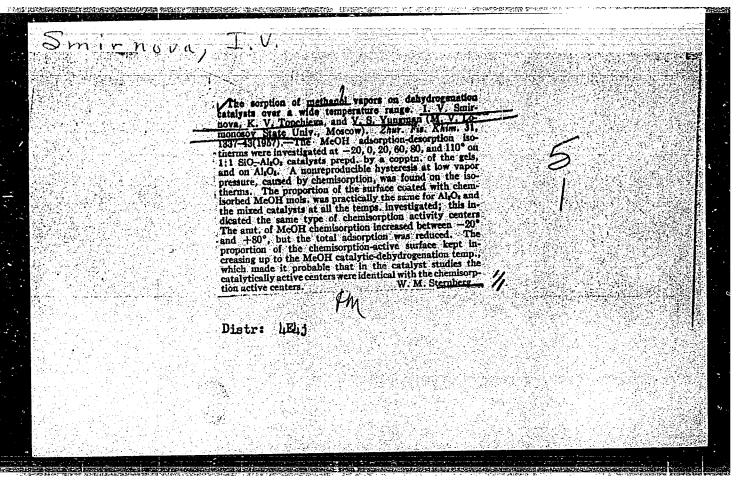
[Papers on kinetics and catalysis] Trudy po kinetike i katalizu. Moskva, Izd-vo Akademii nauk SSSR, 1956. 538 p. (MLRA 9:7)

1. Chlen-korrespondent AN SSSR (for Gerasimov)
(Catalysis) (Hydrocarbons) (Chemical reaction)

SMIRNOVA, I. V. and TOPCHIYEVA, K. V.

"Rol' poverkhnostnikh soyedineniy pri izuchenii kagaligicheskoy degidratatsii spirtov nad okis'yu alyuminiya i alyumosilikatiymi katalizagopami," paper presented at the International Congress on Catalysis, Philadelphia, Pa., 10-14 Sep 56

E-3068659 - an Branch #5



CIA-RDP86-00513R001651620013-6 "APPROVED FOR RELEASE: 08/24/2000

5(3) AUTHORS: Smirnova, I.V. and Topchiyeva, K.V.

sov/55-58-2-32/35

TITLE:

Adsorption of Individual Hydrocarbons on Industrial Aluminum Oxide (Adsorbtsiya individual nykh oglevodorodov na pro-

myshlennoy okisi alyuminiya)

PERIODICAL:

Vestnik Moskovskogo Universiteta Seriya matematiki, mekwaniki, 1958, Nr 2, pp 233-240 (USSR) astronomii, fiziki, khimii.

ABSTRACT:

A report on the contents of the present paper was given in December 1957 at the Leningra conference on the production, structure and properties of sorbents. There was investigated the adsorption of the n-propylbenzene and of the allylbenzene under 20° and 40° and of the benzene, isopropylbenzene, isopropenylbenzene and propenylbenzon under 200 from solutions in n-heptane by industrial aluminum oxide. The isothermal lines of the adscrption show a normal course for consolute liquids. The adsorption remains monomolecular up to the concentration which corresponds to the maximum. The molecules of the considered hydrocarbons are in parallel with the catalyzer surface under adsorption with the plane of the benzene ring. The adsorption decreases with increasing temperature.

Card 1/2

Adsorption of Individual Hydrobarbons on Industrial

sov/55-58-2-32/35

Aluminum Oxide

The maximum of adsorption displaces into the direction of smaller concentrations which causes an increase of the adsorption potential. The adsorption layers are less dense for

 40° than for 20° .

There are 5 figures, 1 table, and 16 references, 14 of which

are Soviet, 1 is German, and 1 Indian.

Kafedra fizicheskoy khimii (Chair of Physical Chemistry) ASSOCIATION:

SUBMITTED: January 30,1958

Card 2/2

CIA-RDP86-00513R001651620013-6 "APPROVED FOR RELEASE: 08/24/2000

5(4)SOV/20-123-2-30/50 Smirnova, I. V., Topchiyeva, K. V. AUTHORS:

The Adsorption of Hydrocarbons at Increased Temperatures TITLE: (Adsorbtsiya uglevodorodov pri povyshennykh temperaturakh)

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 316-319 PERIODICAL: (USSR)

The present paper contains data concerning adsorption from ABSTRACT: solutions of isopropyl benzene, isopropenyl benzene, propenyl benzene, allyl benzene, and cyclohexene on aluminum oxide, which, as is known, catalyzes many important processes as e.g. the isomerization of hydrocarbons. Short reference is made to 4 earlier papers dealing with this subject. The authors compare the adsorption of the aforementioned hydrocarbons with that of n-propyl-benzene and also with the adsorption of benzene. The investigation of this carbon series makes it possible to solve also the problem of the influence exercised by a conjugate double bond in the side chain of an aromatic ring, Also the relative adsorbability of hydrocarbons in an unsaturated bond in various positions is investigated (ally1 benzene - propenyl benzene). Adsorption from the solutions

was measured interferometrically, in which case normal heptane Card 1/3

The Adsorption of Hydrocarbons at Increased Temperatures

sov/20-123-2-30/50

served as a solvent. The adsorbent used was normal technical aluminum oxide. Adsorption measurements were carried out at 20, 30, and 40° The isothermal lines of the adsorption of the investigated hydrocarbons at 20 and 40° are shown by 2 diagrams. The presence of a conjugate double bond in the side chain of an alkyl-aromatic molecule does not vary its planeparallel orientation in the mono-layer in the case of adsorption on the catalyzer surface. With an increase of temperature, the part of the surface that corresponds to each adsorbed molecule increases, but the thickness of the adsorption layer decreases somewhat. According to the data obtained by adsorption measurements carried out at 200, propenyl benzene, isopropenyl benzene, and allyl benzene (which contain a double bond in the side chain) are better adsorbed than aromatic molecules with a saturated alkyl radical with the same number of carbon atoms. According to the results obtained at 40°, adsorption becomes weaker in the two investigated hydrocarbons if temperature rises. The molecules of cyclohexene are at first adsorbed planely on the surface of the aluminum oxide but they stand up with increasing concentration. Thus,

Card 2/3

The Adsorption of Hydrocarbons at Increased SOV/20-123-2-30/50

Temperatures

the existence of a double bond in the molecule of a cyclic hydrocarbon adsorbed on a catalyzer gives rise to certain particularities in the adsorption process. There are 3 figures,

1 table, and 13 references, 17 of which are Soviet.

ASSOCIATION:

Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo

universiteta im. M. V. Lomonosova (Chair for Physical Chemis-

try at Moscow State University imeni M. V. Lomonosov)

PRESENTED:

July 2: 1958, by P. A. Rebinder, Academician

SUBMITTED:

June 18, 1958

Card 3/3

CIA-RDP86-00513R001651620013-6 "APPROVED FOR RELEASE: 08/24/2000

Smirnova, I. V., Topchiyeva, K. V., Mil'hova, 76-1-6/32 AUTHORS:

March 1 Page 18 3

The Adsorption of Alkylaromatic Hydrocarbons From TITLE:

Solutions by Means of Industrial Catalysts. I. (Adsorbtsiya iz rastvorov alkilaromaticheskikh uglevodorodov na promyshlennykh katalizatorakh. I.)

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 1, pp. 43-48 PERIODICAL:

(USSR)

The question of the problem of the influence of the ABSTRACT:

conjugated double compound in the side chain of an aromatic $\operatorname{rin}_{\overline{G}}$ or the adsorption from a solution is treated by means of the example of isopropylbenzene and isopropenylbenzene adsorbed by industrial catalysts. The systems investigated here are infinitely intermixing liquids. The adsorption of isopropylbenzene from solutions in n-heptane and in carbon tetrachloride, the adsorption of isopropenylbenzene from solutions in n-heptane by means of industrial catalysts of Houdry and aluminum oxide at 20°C was investigated. The adsorption isothermal lines pags through a maximum and

cross the concentration axis in a point near to $c_s=1/V_m$.

Card 1/3

The Adsorption of Alkylaromatic Hydrocarbons From Solutions by Means of Industrial Catalysts. I.

76-1-6/32

 $V_{\rm m}$ = the molecular volume of carbon, $c_{\rm S}$ = the concentration. Up to the concentrations corresponding to the maximum the adsorption remains monomolecular. The authors show that the selective adsorption of isopropylbenzene is essentially greater from a compound with n-heptane than with a compound with carbon tetrachloride. The authors stated that the molecules of the alkylaromatic hydrocarbons investigated here are, with the benzene ring level, orientated parallel to the catalyst surface in the case of an adsorption from solutions in n-heptane. The authors also show that the presence of a conjugated double compound in the side chain of the aromatic ring at the transition from isopropylbenzene to isopropenyl-benzene essentially increases the adsorption potential. This proves the change of the molecular constant from 60 Å to 56 Å in the case of isoprenylbenzene. There are 4 figures, 3 tables, and 26 references, 19 of which are Slavic.

ASSOCIATION:

Moscow State University ideni M. V. Lomonosova (Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova).

Card 2/3

SOV/76-33-5-16/33 Smirnova, I. V., Topchiyeva, K. V., Smetanko, N. P. (Moscow) 5(4) AUTHORS:

The Adsorption From Solutions of Alkylaromatic Hydrocarbons on Industrial Catalysts 2. (Adsorbtsiya iz rastvorov alkil-TITLE: aromaticheskikh uglevodorodovnapromyshlennykh katalizatorakh.2)

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 5. PERIODICAL:

pp 1059 - 1064 (USSR)

This paper shows the results of the investigation of the ABSTRACT: adsorption of allyl benzene, propenyl benzene, and - in comparison - n-propyl benzene from solutions of n-heptane on Al203 at 20° and 40°. Table 1 shows the physical data

of the hydrocarbons used. Figure 1 shows the isothermal adsorption lines at 20°, figure 2 at 40°. The absolute isothermal adsorption lines and their molecular constants were determined considering the extent of the specific surface of Al203. Figure 2 shows the isothermal lines, table 2 the data

obtained. The thickness of the adsorption layer of propenyl benzene agrees with the theoretically calculated thickness

of the benzene ring = 3.7 Å. Thus the molecules of propenyl Cará 1/2

The Adsorption From Solutions of Alkylaromatic Hydrocarbons on Industrial Catalysts 2.

\$0V/76-33-5-16/33

benzene show a parallel orientation towards the catalyst surface with the surface of the benzene ring. The same is true of allyl benzene and n-propyl benzene. The presence of a double bond in the side chain does not change the planoparallel orientation of the benzene derivative. The adsorbability of the hydrocarbons with various molecular volume decreases in the order propenyl-, allyl-, n-propyl benzene. A conjugated double bond increases the adsorption potential. Adsorption decreases with increasing temperature, the adsorption layers become less dense. There are 3 figures, 2 tables, and 16 references, 14 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonoscv)

SUBMITTED: October 12, 1957

Card 2/2

FROST, Andrey Vladimirovich, prof. [deceased]; Prinimali uchastiye: BUSHMAKIN, I.N.; YVEDENSKIY, A.A.; GRYAZNOV, V.M.; DEMENT'YEVA, M.I.: DINTSES, A.I.: DOBRONRAVOV, R.K.; ZHARKOVA, V.R.; ZHERKO, A.V.; IPAT'YEV, V.H.; KYYATKOVSKIY, D.A.; KOROBOV, V.V.; MOOR, V.G.; NEMTSOV, H.S.; RAKOVSKIY, A.V.; REMIZ, Ye.K.; RUDKOVSKIY, D.M.; RYSAKOV, M.V.; SEREBRYAKOVA, Ye.K.; STEPUKHOVICH, A.D.; STRIGALEVA, N.V.; TATEVSKIY, V.M.; TILICHEYEV, M.D.; TRIFEL', A.G.: FROST, O.I.: SHILYAYEVA, L.V.; SHCHEKIN, V.V., DOLGOPOLOV, N.N., sostavitel; GERASIMOV, Ya.I., otv.red.; SMIRNOVA, I.V., red.;
TOPCHIYEVA, K.V.; YASTREBOV, V.V., red.; KONDRASHKOVA, S.F., red. izd-va; LAZAREVA, L.V., tekhn.red. [Selected scientific works] Izbrannye nauchnye trudy. Moskva, (MIRA 13:5) Izd-vo Mosk.univ., 1960. 512 p. 1. Chlen-korrespondent AN SSSR (for Gerasimov). (Chemistry, Physical and theoretical)

81654 S/181/60/002/06/44/050 B006/B056

24, 2600 AUTHORS:

Shuba, Yu. A., Smirnova, I. V.

TITLE:

Photoelectronic Emission From Copper- and Silver Iodide

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 6, pp. 1321-1322

TEXT: The external photoeffect occurs on pure halides of the elements of the first group of the periodic system in the far ultraviolet. Hitherto, the photoemission from CuI and AgI has been investigated mainly within the longwave range of ultraviolet emission. The authors of the present paper measured the relative spectral distribution of photoemission from CuI and AgI in the shortwave range of from 2600 to photoemission from CuI and AgI in the shortwave range of from 2600 to 1100 A. For this purpose, a vacuum monochromator with aluminized replica with diffraction grating (radius of curvature 500 mm) was used. As a radiation source a hydrogen gas discharge lamp with LiF-window (of 1 mm thickness) was used, which allowed a radiation of up to 1050 A to pass. Photoemission was measured by using the samples to be investigated as photocathodes in open electronic multipliers. The measuring results obtained are shown in a figure (abscissa: photoenergy in ev, ordinate:

Card 1/2

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81654

Photoelectronic Emission From Copper- and Silver Iodide

S/181/60/002/06/44/050 B006/B056

quantum yield in relative units). Uniform rules were observed for all samples. At low energies the quantum yield rises steeply with photon energy (for CuI by more than 6 orders of magnitude). Within the shortwave range a certain saturation sets in. The method of producing the CuI and AgI layers warranted a nearly stoichiometrical ratio of the components. It may be assumed that the photoemission threshold in the layers under investigation corresponds to a photoelectron excitation beyond the lattice boundaries direct from the valency band vortex. With increasing hy the number of band levels increases, whose electrons are able to participate in the photoemission, which leads to an increase of the quantum yield. With a further increase of hy the level number remains the same if the bottom of the valency band is in a depth of 7.5 ev with respect to the vacuum level, and scattering of electrons on the valency band electrons occurs. There are 1 figure and 6 references: 2 Soviet, 1 German, 1 British, and 1 American.

ASSOCIATION: Opticheskiy institut im. S. I. Vavilova Leningrad

(Optical Institute imeni S. I. Vavilov, Leningrad)

SUBMITTED:

September 2, 1959

X

Card 2/2

SMIRNOVA, I.V.; KUBASOV, A.A.; TOPCHIYEVA, K.V.

Heat of wetting aluminum oxides by benzene, cyclchexane, and cyclohexene solutions in n-heptane. Dokl. AN SSSR 139 no.1: 150-153 Jl '61. (MIRA 14:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Aluminum oxide) (Heat of wetting)

VAVILOV, V. S.; SMIRNOVA, I. V.; CHAPMIN, V. A.

"On Defects Introduced by Fast Electrons into silicon Doped by Lithium "

Paper was submitted at the International Conference on Crystal Lattice Defedts at Kyoto, 7-12 Sep ' 62

(for Vavilov, v. s.) P. N. Lebedev Inst. of Physics Leninsky Prospect 53, Moscow

s/181/62/004/005/009/055 B102/B138

247700

Vavilov, V. S., Smirnova, I. V., Chapnin, V. A. AUTHORS:

TITLE:

The interaction of lithium atoms introduced into silicon with the radiation defects of the structure

PERIODICAL: Fizika tverdogo tela, v. 4, no. 5, 1962, 1128-1131

TEXT: The authors studied the interaction of Li impurity atoms in Si single crystals with the structural defects that were produced by fastelectron bombardment. The Li impurity was introduced by diffusion from a Sn-Li melt containing 0.2 - 1% Li. Li equilibrium concentration in Si was reached at $550-650^{\circ}$ C. The Li samples were p-type ($?\sim150$ ohm.cm) and cut out of single crystals. After introduction of Li the p-type samples were transformed to n-type with carrier concentrations of 3.10 14 -10 16 cm -3. Since Li formed oxide ions Li0+, which have shallow donor levels and are relatively stable at room temperature, the carrier concentration (n) equals the sum of the ions Li+ LiO+. Electron bombardment (0.9 Mev) took place at room temperature. At Li concentrations card 1/1 7

իկ163 S/181/62/004/012/003/052 B104/B102

24 7:30

AUTHORS: Smirnova, I. V., Chapnin, V. A., and Vavilov, V. S.

TITLE: Radiation defects in lithium-doped silicon

PERIODICAL: Fizika tverdogo tela, v. 4, no. 12, 1962, 3373-3380

TEXT: The effect of lithium on the formation of stable radiation defects in silicon and on the annealing of these defects is studied by determining the temperature dependence of the carrier concentration from the Hall effect. The lithium was introduced into Si single crystals by diffusion annealing (550-650°C) from a tin-lithium alloy. The single crystals had a resistivity of 100 ohm·cm; after doping they had n-type conductivity. The carrier concentration lay between 3·10¹⁴ and

2·10¹⁷ cm⁻³. The specimens were irradiated by 0.9-Mev electrons at room temperature. Results: In n-type silicon with lithium up to concentrations of (1-2)·10¹⁷ cm⁻⁷, shallow energy-levels arise in the range from 0.06 to 0.14 ev below the bottom of the conduction band, which are related to primary radiation defects, e.g., to pairs of interstitial atoms and

Card 1/2

Radiation defects in ...

5/181/62/004/012/003/052 B104/B102

vacancies which are separated by different distances. The lithium in the Si crystal interacts with these defects. Such interaction is similar to the processes that occur during the annealing of genetically unrelated vacancies and interstitial atoms. The trapping radius has the same order as the lattice constant, $(r_{min} = 5.4 \cdot 10^{-8} \text{ cm})$. In crystals that, after part of the lithium has been deposited in the defects, are again of p-type conductivity, the levels 0.45 ev, 0.28 ev and 0.21 ev were observed above the top of the valency band. The centers corresponding to the level E_{v} + 0.28 ev did not disappear completely even during annealing for several hours at 450°C and above; those corresponding to the level E_v + 0.21 ev disappeared completely during annealing at 450°C. There are

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova

(Moscow State University imeni M.V. Lomonosov)

SUBMITTED:

June 16, 1962

Card 2/2

SMIRNOVA, I.V.; TOPCHIYEVA, K.V.; KURASOV, A.A.; SAVCHENKO, L.V.

· 1985年 - 198

Adsorption of methylcyclohexene from solutions at elevated temperature. Dokl. AN SSSR 147 no.3:660-662 N 162. (MIRA 15:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosqva.

Predstavleno akademikom P.A. Rebinderom.

(Cyclohexene) (Adsorption)

SMIRNOVA, I.V.; KARPUKHINA, G.V.; TOPCHIYEVA, K.V.

Adsorption of allylbenzene and allylcyclohexane on a chromia catalyst. Neftekhimiia 3 no.1:71-73 Ja-F '63. (MIRA 16:2)

l. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Benzene) (Cyclohexane) (Adsorption)

s/204/63/003/001/006/013 E075/E436

AUTHORS:

Smirnova, I.V., Karpukhina, G.V., Topchiyeva, K.V.

TITLE:

Adsorption of allylbenzene and allylcyclohexane on

chromia catalyst

PERIODICAL: Neftekhimiya, v.3, no.1, 1963, 71-73

The adsorption from n-heptane of the two hydrocarbons on Cr03 was studied to gain an insight into the mechanism of the polymerization of unsaturated hydrocarbons. The catalyst was prepared by a previously described method (A.V. Topchiyev et al. Dokl. AN SSSR, v.130, 1960, 344) and had the surface area of There were no catalytic reactions taking place during The adsorption isotherms were determined at 20°C 330 m²/g• Allylbenzene was shown to occupy an area on the experiments. the catalyst similar to that occupied by benzene on silica gel or Allyl groups were apparently above the level of the adsorbed benzene nuclei making the adsorbed mono-layer relatively thick and not in contact with the catalyst surface. The molecules of adsorbed allylcyclohexane occupied much larger area, the allyl groups being in direct contact with the surface. Card 1/2

TOFCHIYEVA, K. V.; SMIRNOVA, I. V.; KUBASOV, A. A. "Concerning the mechanism of cyclene isomerization over alumina." report submitted to 3rd Intl Cong on Catalysis, Amsterdam, 20-25 Jul 64. Moscow State Univ im Lomonosov.

KUBASOV, A.A.; SMIRNOVA, I.V.; TOPCHIYEVA, K.V.

Gas chromatographic determination of the heats of adsorption of hydrocarbons on aluminum cxide. Kin. i kat. 5 no.3:520-525 (MIRA 17:11)

My-Je '64.

1. Moskovskiy (osudarstvennyy universitet imeni Lemonosova, khimicheskiy taku) tet.



LUMEWAY, L.V.; KEBADAT, B.A.; AMPLOY, Martin; TOTALIMENA, R.V.

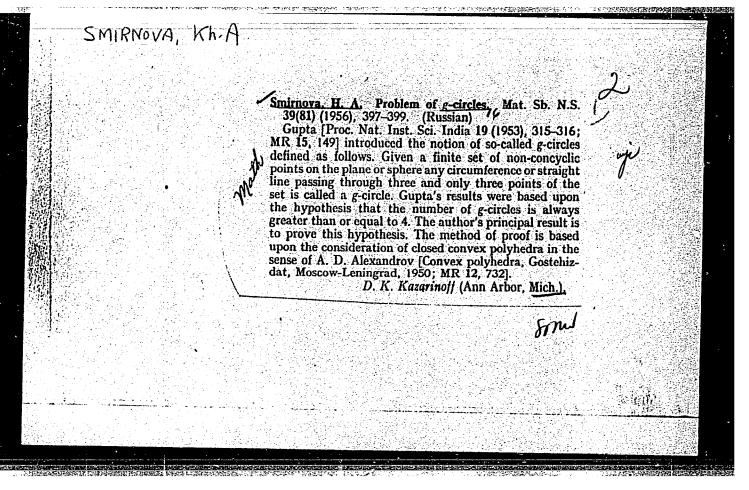
Heats of wetting of aluminum oxide by solutions of methylcyclonexenes in n-neptane. Box1. AN SSSR 160 nc.1:170-173 Ja 165. (MHA 18:2) 1. Hostovskiy condensivemby universitet. Submitted July 2, 1964.

·	电极图象标识 医克克特尔
Joseph , Intermitable the Termoistic	
Ascertante and its role in scute abdominal diseases. Rhirurgiia no. 4 (1952))
	:
Contaly List of Russian Accessions, Library of Congress, August, 1952. UNCLAS	CARTON
	· · · · · · · · · · · · · · · · · · ·

SMIRWOVA, K.A.

An unusual complication of gastric resection. Vest.khir. 76 no.7: 126-127 Ag '55. (MLRA 8:10)

1. Iz khirurgicheskog otdeleniya 3-y gorodskoy bol'nitsy g. Ivanovo (zav.K.A. Smirnova)
(STOMACH, neoplasms
caused by surg. & anastomosis of stomach)



Systems of algebraic equations with a single unknown. Izv.
vys. ucheb.zav.;mat.no.5:160-164 '60. (MIRA 13:10)

1. Moskovskiy poligraficheskiy institut.
(Equations)

AND: If EVSKIY, Feedomiy Petrovich; SHIRNOVA, Kh.A., dots., red.; MAKOVSKAYA, R.P., red.

[Elementary theory of Fourier series. Fourier integrals; supplementary chapters to a course in higher mathematics] Nachal'nye svedeniia o riadakh Fur'e. Integral Fur'e; dopolnitel'nye glavy k kursu vysshei matematiki. Moskva, Mosk. poligraficheskii in-t. No.2. 1964. 39 p.

(MIRA 18:6)

S/075/62/017/005/001/007 I033/I233

AUTHORS:

Brudz', V.G., Titov, V.I., Osiko, Ye. P.,

Drupkina, D. A., and Smirnova, K.A.

TITLE:

Sulphonazo as a reagent for the determination of

scandium

PERIODICAL:

Zhurnal saaliticheskoy khimii, v.17, no.5, 1962,

568-573

TEXT: Properties of various reagents which produce colored compounds with Sc ions were investigated and compared. The best results were obtained in the case of sulphonazo. For a solution of pH 4.0 - 5.5, buffered by urotropine or acetate, the peak of optical density is obtained at 610-620 m/m. The Beer law is obeyed

Card 1/3

S/075/62/017/005/001/007 I033/I233

Sulphonaco as a reagent....

institut mineral'nogo syr'ya (all-Union Scientific Research Institute of Chemical Research and High Purity Chemical Substances, and All-Union Scientific Research Institute of Mineral Raw Materials) Moscow

SUBMITTED: May 20, 1961

Card 3/3

DRAPKINA, D.A.; BRUDZ', V.G.; SMIROVA, K.A.; DOROSHINA, N.I.

Photometric determination of cadmium by means of "bromobenzothiazo". Zhur.anal.khim. 17 no.8:940-944 N '62. (MIRA 15:12)

1. All-Union Scientific-Research Institute of Chemical Reagents and Chemical Substances of Special Purity, Moscow.

(Cadmium-Analysis) (Chemical tests and reagents)

LUKIN, A.M.; SMIRNOVA, K.A.; ZAVARIKHINA, G.B.

New reagent for the photometric and complexonometric determination of calcium. Zhur.anal.khim. 18 no.4:444-449 Ap '63. (MIRA 16:6)

1. All-Union Scientific-Research Institute of Chemical Reagents and Chemical Substances of Special Purity, Moscow.

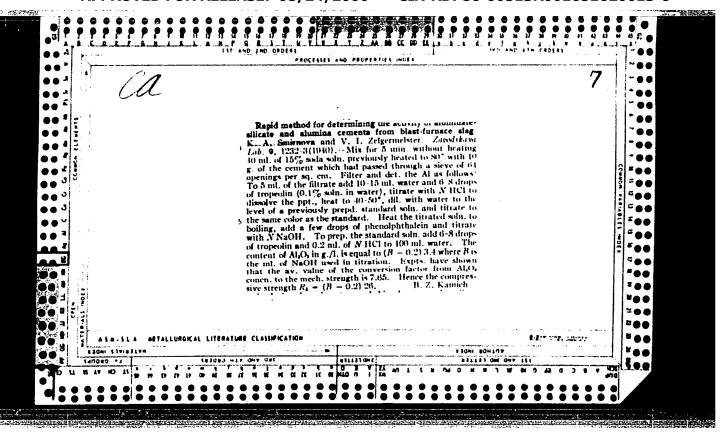
(Calcium-Analysis) (Complexons) (Photometry)

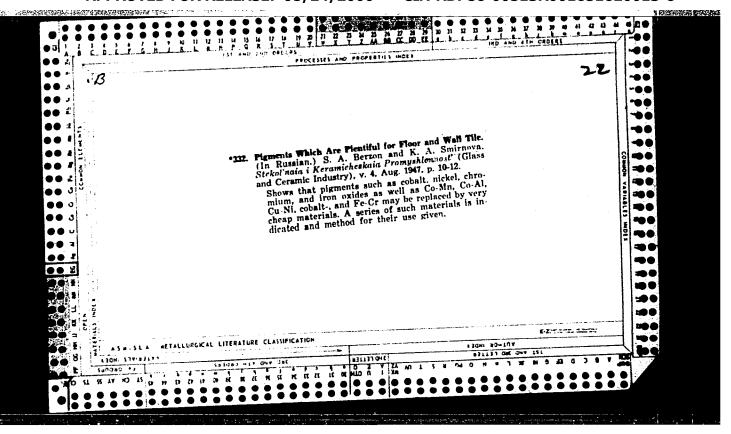
VISTY-KOV, D.Ya., doktor tekhn.nauk, prof.; SOVALOVA, A.A., kand.tekhn.nauk, dotsent; SMIRNOVA, E.A., inzh.

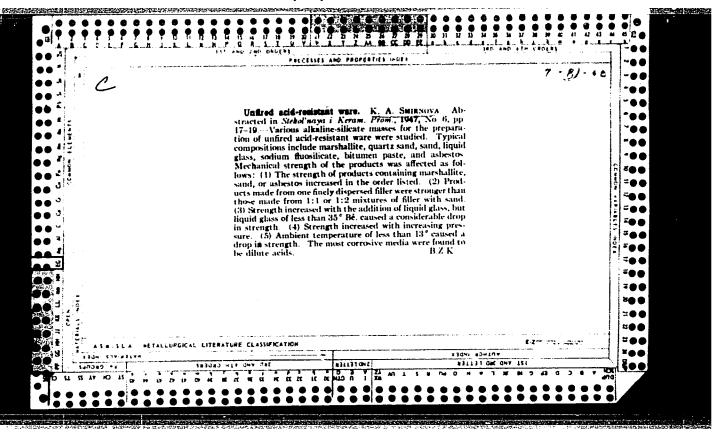
Mechanical properties of steel at low temperatures. Trudy MATI no.31: 100-106 '58. (MIRA 11:7) (Steel--Testing) (Mechanical wear) (Metals at low temperature)

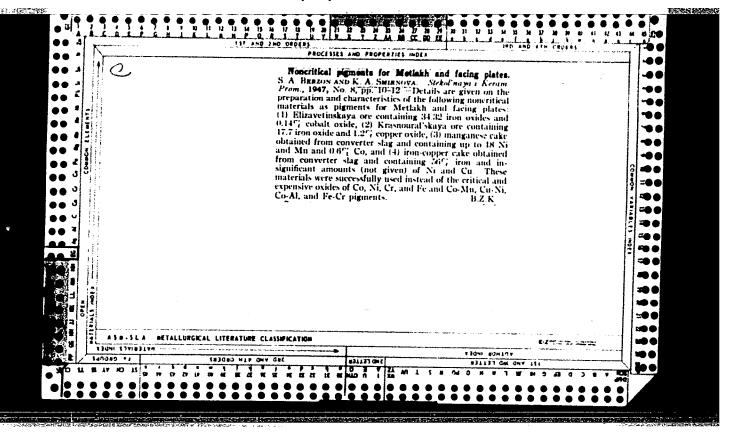
ABASHINA, V.I.; AKSEL'ROD, S.S.; RUTKOVSKIY, G.M.; SMIRNOVA, K.A.

The SF-8 recording spectrophotometer. Zhur. prikl. spekt. 2
no. 2:182-186 Ag '65. (MIRA 18:12)









SMIENOVA, K.A., Eng.

医前肢性皮肤 经通过制度的物理的 法法律 化对象性过程 经人工工程 计可以记录机工程

"Obtaining Acidproof Plates Without Roasting on a Base of Soluble Glass." Thesis for degree of Cand. Technical Sci. Sub. 6 Jun 19, Moscow Order of Lenin Chemicotechnological Inst imeni D.I. Mendeleyev.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec. 1949.

SMIRNOVA, K.A.

30344

Razrabotka ryetsyeptury i tyekhnulogii izgotovlyeniya byezobzhigovykh kislotoupornykh plitck. Trudy Obshchyesoyuz. Nauch. - isslyed. in- ta stroit. kyeramiki, vyp. 2, 1949 s. 16-33. - Bibliogr: 14 Mazv.

SC: LETCPIS' No. 34

SMIRNOVA, K. A.

New type porous ceramics shapes. I. S. Dobrevol'skii and K. A. Smirnova. Steklo i Keram., 7 (8) 18-20 (1950).—Ir making porous shapes from quartz sand ani water glass, the method involves selecting the ost uniformly sized sand grains and determining the optimum amount of water glass which, during firing, will produce a fine vitreous film around the grains, cement them, firing, will produce a fine vitreous film around the grains. The and create open pores by not filling the apaces between the grains. The materials are mixed, shaped with the aid of a press or vibration platform, and fired at 900°C. Photos and characteristics of filter shapes are given.

Bes

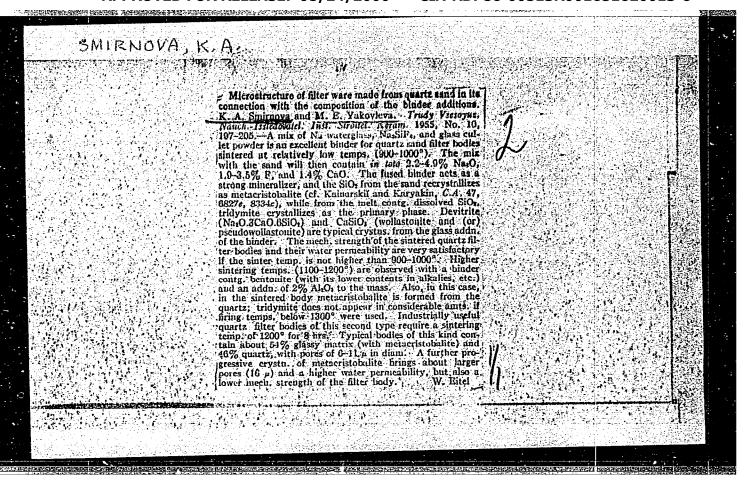
Pattery

1323. Person ceramics made from grog banded with alkalf-silicate.—K. A. Sananova (Siek, Keram., B. No. 10, 16, 1951). Porous ceramics for filtration, aerablos, purification of air and gases, etc., must often resist thermal shock (inserts for dry acetylane preparation, cylinders for petrol combustion, etc.). As a filter for thermally stable porous products, grog with a refractoriness of 1,670°-1,690°C., bulk density of 1.9 g/ml., and containing 67-30°, SiO₂ and 30°-31°, Al₂O₃, was used. Na silicate is used with a modulus of 2.8 and density of 1.42, with the addition of Na₂SiF₆ containing 12% of impurities, the bulk of which is SiO₂. The investigations have shown that, in the hardening of such compa., the main process is the congulation of SiO₂ of the Na₂SiF₆. This conclusion is confirmed by the fact that when even a small amount of Na₂SiF₆ (4-7%) is added, 70-80% of all SiO₂ present in the Na silicate is in the colloidal state, whereas only 10-15°, SiO₂ should theoretically form as a result of reaction between the Na silicate and the same quantity of Na₂SiF₆. Colloidal SiO₂ coats grog grains as a gel-like film. Owing to the removal of moisture during drying and synerosis, the gril solidifies to provide a strong linkage of grog grains between each other and thus increase the overall strength of the products. After shaping and setting, the products contain in addition to the grog grains a bond of 40-45% alkalis and 50-60°, SiO₂. Considering that 20-25% of the mixture of Na silicate with Na₂SiF₆ is introduced into the mix, the whole body will contain c. 15% colloidal SiO₂ and 10% alkalis. NaF forming from reaction between Na silicate and Na₂SiF₆ is present in the body in small amounts (<1%). The porosity depends on the making pressure and amount of Na silicate added. The following manufacturing process is recommended. Grog is crushed in edge runners and the 0-3-0-4 mm. Fraction is used. To this, 5% (by wt. of grog) of Na₂SiF₆ (0-4 mm.) is added; this is carefully mixe

one

SMIRNOVA, K. A.		
	Water-resistant porous shapes bonded with soluble glass. K. A. Smirnova. Steklo i Keram. 11, No. 6, 15-16(1954).— Shapes made from 80-86% grog. 10% sol. glass, and 4%. Na-SiF were fired at 1100 and 1200°. After 2 months in water, 2 months in the open, and drying in a thermostat, the crushing strength was 120-140 kg./sq. cm. Abs. porosity was 43 and 48%, water absorption 29 and 34%, pore size 70 and 110 \(\mu\), air permeability 8 and 21 cu. m. cm./sq.m. hr. mm. water column. B. Z. Kamich.	

SMIRNOVA, K.A. Engineering - Porous ceramic tiles USSR/ 1/1 Pub. 104 - 12/14 Card : Smirnova, K. A. Authors Production of porous ceramic tiles used for unloading and pneumatic Title transportation of powdered materials should be expanded. Periodical : Stek. i ker. 11/11, 27-29, Nov 1954 : An analysis is made of the factors involved in making porous tiles. Abstract These include the fineness of the grinding of raw materials, the pressure applied in forming the tiles, and the heat applied in the firing. Figures are presented to show how the size of the pores can be regulated by the pressure and fineness of the grain. Seven USSR references (1936-1954). Table. Institution: Submitted:



MATVEYEV, Mikhail Aleksandrovich; SMIRNOVA, Klavdiya Aleksandrovna; SIL'VESTROVICH, S.I., nauchnyy redaktor; KRUGLOV, S.A., redaktor; LYUDKOVSKAYA, N.I., tekhnicheskiy redaktor

[Porous silicate products] Poristye silikatnye izdeliia. Moskva.

Gos. izd-vo lit-ry po stroit. materialam, 1956. 106 p. (MIRA 9:10)

(Building materials) (Silicates)

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651620013-6"

SMIRNOVA. A

Chemical Products USSR /Chemical Technology. and Their Application

I-12

Silicates. Glass. Ceramics. Binders.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31562

Author : Matveyev M., Smirnova K.

Porous Panels for Pneumatic Transfer of Title

Pulverulent Materials

Stroit. materialy, izdeliya i konstruktsii, 1956, Orig Pub:

No 8, 28-29

Abstract: Description of the technological process of

production, and testing procedures for air-permeability, of porous chamotte panels, made with water glass, for pneumatic transfer of dust-like and pulverulent materials.

Card 1/1

CIA-RDP86-00513R001651620013-6 "APPROVED FOR RELEASE: 08/24/2000

FOMIRACVA, K. H

Chemical Products and Their Application -- Silicates. USSR/Chemical Technology. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5223

Nosova, Z. A., Smirnova, K. A. Author:

Institution: None

Title: Effect of Vibratory Grinding of Materials on Properties of Sanitary

and Building Articles Made of Semiporcelain

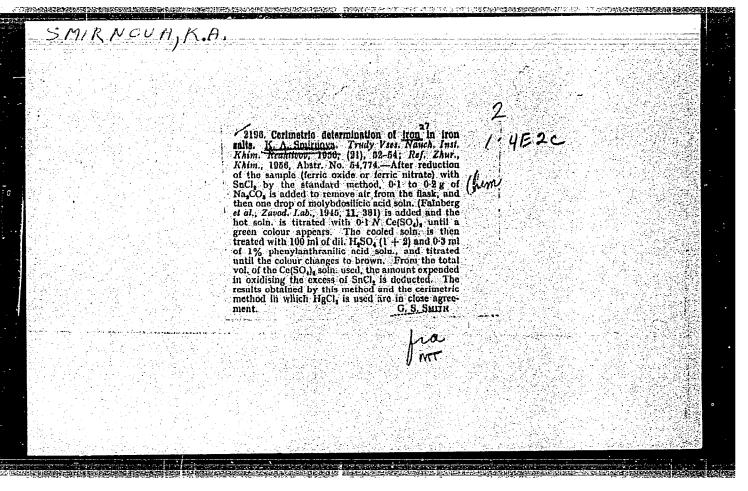
Original

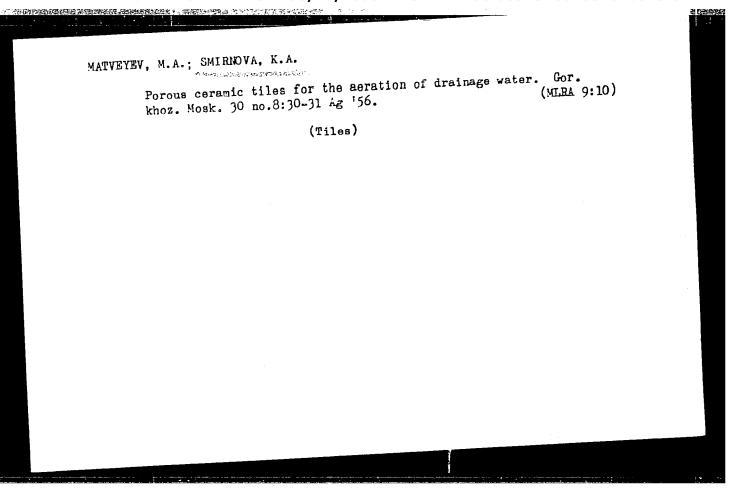
Steklo i keramika, 1956, No 4, 18-23 Publication:

Abstract: Described are the results of investigations of samples of semiporce-

lain paste prepared by using vibration-ground filler materials: predried quartz sand and pegmatite calcined at 800°. Vibratory grinding of the materials was carried out in a M-200 vibratory mill of intermittent action, using uralite balls, and the grinding was done to different degrees of dispersion. The latter was determined by the Robinson pipette method used in conjunction with the method of Sabanin; specific surface was determined by calculation on the basis of the

Card 1/2





SMIRNOVA, K., kand. tekhn. nauk.

Influence of the structure of semidry pressed bricks on their frost
Influence. Stroi. nat. 3 no.12:30 D '57.

(Bricks--Testing)

(Bricks--Testing)

CIA-RDP86-00513R001651620013-6 "APPROVED FOR RELEASE: 08/24/2000

AUTHOR:

Smirnova, K. A.

507/72-58-9-11/20

TITLE:

Influence of Finely Ground Quartz Sand and Feldspar Upon the Properties of Semi-Porcelain (Vliyaniye tonkogo izmel'cheniya kvartsevogo peska 1 polevogo shpata na

svoystva polufarfora)

PERIODICAL:

Steklo i keramika, 1958, Nr 9, pp 31 - 35 (USSR)

ABSTRACT:

By experiments formerly carried out in collaboration with Z.A.Nosova it was found that the addition of fine dispersion agents leads to deterioration of the molding and drying properties of the semi-porcelain batches with a 30% clay content. In the experiments, covered by this paper, batches were used with a clay content of 27, 24 and 22%, the total composition of which

is given in table 1. Their percentual chemical composition

is given in table 2, and the dispersion of the raw

materials in figure 1. Next the preparation of the batches is described. In figure 2 the microstructure of a sample from batch Nr 1 (Table 1) is portrayed, which was produced

from raw materials of customary dispersion and which was baked at a temperature of 1160°. In figure 3 the

Card 1/4

Influence of Finely Ground Quartz Sand and Feldspar S07/72-58-9-11/2c Upon the Properties of Semi-Porcelain

above specimens were produced. L.A.Lifshits, Chief Engineer of the Lobnya Works, Z.I.Puchkova, Head of the Laboratory and V.I.Kanayeva, Head of the Experimental Department assisted in this work. The specimens were baked at a temperature of 1200-1230°. The water absorption after baking varied between 2,5 and 3,5%, which complies with the standard specifications GOST for structural semi-porcelaine for sanitary purposes. There are 7 figures, 4 tables, and 1 reference, 1 of which is Soviet.

ASSOCIATION: NIIstroykeramika (Scientific Research Institute of

Structural Ceramics)

Card 3/4

SMIRNOVA, K.A., kand.tekhn.nauk

Sturcture and properties of filtering ceranics with use of various bonding elements. Trudy NIIStroikeramiki no.13:203-218

'58. (Ceramics)

(Filters and filtration)

Using porous ceramics in constructing dust collectors and pneumatic systems for transporting bulk materials. Stroi.
mat. 5 no.6:25-27 Je 159.
(Ceramic materials) (Dust collectors) (Pneumatic-tube transportation)

30(1)

S0Y/99-59-9-7/14

AUTHOR:

Karambirov, N.A. and Smirnova, K.A., Candidates of

Technical Sciences, and Shimanovskiy, V.V., Senior

Engineer

TITLE:

Porous Ceramic Filters for Water Supplying

PERIODICAL:

Gidrotekhnika i melioratsiya, 1959, Nr 9, pp 44-50

ABSTRACT:

The stepping-up of water output from water-bearing layers consisting of fine sand, requires the building of special filters, as the application of common filters, owing to their quick clogging by the fine sand particles, does not always answer the purpose. For a solution of the problem of an efficient filtering of water containing many suspended sand particles, the authors did research, in 1957-1958, at the "VSEGINGEO" institute, to work out a filter design, which would institute, to work out a filter design, which would meet the requirements. Research has shown that filters made of porous ceramic are the most satisfactory for the above purpose. As filter mediums, granulated fire

Card 1/3

SCY/99-59-9-7/14

Porous Ceramic Filters for Water Supplying

clay and sifted quartz gravel were proposed. The chemical and granulometrical specifications of these filters are given in Tables 1 and 2. As binding materials, liquid glass mixed with silicofluorsodium and a number of glazes were proposed. Compositions of binding materials are given in Table 3. The blocks manufactured of granulated fire clay and liquid glass withstand well the process of baking, without changing their dimensions. In Figure 6, the porous ceramic filter components are shown; they were manufactured at the Kuchinskiy plant. Because of their high mechanical stability and porosity, these filters satisfy to a high degree all the requirements that might be made -- even in face of the heaviest odds -- of the process of filtering. In the current year, the Kushinskiy plant manufactured a test batch of ceramic filters on the basis of fire clay and liquid glass with silicofluorsodium. The Promburvod All-Union Hydrogeological Trust and other building organizations

Card 2/3

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Porous Ceramic Filters for Water Supplying

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are, at the present time, conducting tests of these filters, under different hydrogeological conditions. These tests will permit establishing of application fields and parameters of the new filters. There are 2 graphs, 5 tables and 4 photographs.

ASSOCIATION: Institut VSEGINGEO (VSEGINGEO Institute) (V.V. Shimanovskiy)

Card 3/3

S/072/60/000/008/006/007/XX B021/B054

AUTHORS: Matveyev, M. A. Smirnova, K. A.

TITLE: Ceramic Filter Elements for Selenium Production

PERIODICAL: Steklo i keramika, 1960, No. 8, pp. 30 - 35

TEXT: Selenium sulfite solutions are purified by ceramic filter elements. P. I. Galkin and M. I. Eykhmans (Vsesoyuznyy institut mineral'nogo syr'ya (All-Union Institute of Mineral Raw Materials)) studied the production of finely porous ceramics in 1930, and R. M. Yurchak and Professor R. T. Makhl' in 1939. In the present paper, the authors studied fine ceramics with addition of dolomite. Mixtures of 9-17% clay, 30-33% kaolin, 6-29% quartz sand, 5% feldspar, 0-16% body, and 0-50% dolomite were mixed in a ball mill (after previous grinding), stirred with soda and water glass, cast in plaster molds, and left standing at room temperature for 84 h. Burning at 1100°, 1160°, or 1200°C followed. Pore dimensions and filtering capacity were determined. Table 5 gives the properties of samples as dependent on burning temperature. The filtering capacity of porous ceramics, burned

Card 1/2

Ceramic Filter Elements for Selenium Production

S/072/60/000/008/006/007/XX B021/B054

at 1160°C, increased with increasing dolomite content. It was found that the samples of ceramics No. 6 and No. 7 with 40, and 50% of dolomite, respectively, had the best filtering properties; they were recommended for the production of ceramic filters to purify selenium sulfite solutions.

Their pore dimension is 5 - 7μ , the bending strength attains 172 kg/cm². There are 8 figures, 5 tables, and 4 Soviet references.

Card 2/2

SMIRNOVA, K.A., kand.tekhm.nauk; Prinimala uchastiye RYBAKOVA, Z.S.,
mladshiy nauchnyy sotrudnik

Sound-absorbing porous ceramic material. Trudy NIIStroikeramiki
no.16:132-148 160.

(Acoustical materials)

(Geramic materials)

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651620013-6"

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VEANKOV, V.T.; LOBANOV, N.I.; SMIRNOVA, K.A.

Soundproof porous ceramic. Stek.i ker. 18 no.8:26-30 Ag '61.

(MIRA 14:8)

(Ceramics) (Acoustical materials)

SMIRNOVA, K. A., kand. tokhn nauk

Leadless, nonboron raw glaze on a soluble glass base. Trudy

NIIStroikeramiki no. 19:29-35 '62. (MIRA 17:5)

SMIRNOVA, K. A., kand tekhn nauk; RYBAKOVA, Z. S., mladshiy nauchnyy sotrudnik

Ceramic cores for modeling oil-bearing layers. Trudy NIIStroikeramiki no. 19:36-42 '62. (MIRA 17:5)

MATVEYEV, M.A., doktor tekhn.nauk; SMIRNOVA, K.A., kand.tekhn.nauk

New soundproofing materials. Stroi. mat. 8 no.2:28-29 F

(MIRA 15:3)

(Acoustical materials)

MATVEYEV, M.A., doktor tekhn.nauk, prof.; SMIRNOVA, K.A.; USTINOVA, V.F.

Filtering ceramics made of substances based on wastes from
asbestos-dressing plants. Stek. i ker. 19 no.8:28-32 Ag
(MIRA 15:9)
162.

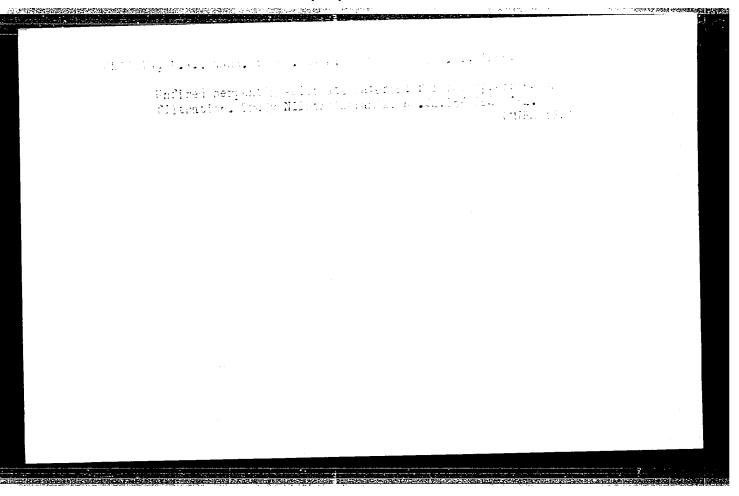
(Geramic materials) (Filters and filtration)

SMIRNOVA, F.A., kand.tekhn.nauk; ROBINA, T.I., inzh.

Prospects for the use of vollastonite in the manufacture of filter ceramics. Trudy NIIStroikersmiki no.21:992118 *63. (MIRA 17:2)

BRUDZ:, V.G.; SHAFRAN, I.G.; SMIRNOVA, K.A.; DRAPKINA, D.A.; ZELICHENOK, S.L.; PODOL: SKAYA, B.L.; Prinimala uchastiye MASLINIKOVA, V.I.

Sulfonazo, a new reagent for vanadium. Trudy IREA no.25:17-23 (MIRA 18:6)



SMIRNOVA, K.F. (Moskva)

Differential diagnosis of acute cholecystitis. Fel'd. i akush.
26 no.3:8-12 Mr '61. (MIRA 14:3)

(GALL BLADDER--DISEASES)

SHABANCV, A.W., prof.; SMIRNOVA, K.F.

Errors in the diagnosis of acute cholecystitis. Sov.med. 26 no.8:37-43 Ag '62. (MIRA 15:10)

1. Iz kafedry obshchey khirurgii (zav. - prof. A.N.Shabanov) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo meditsinskogo instituta imeni I.M.Sechenova na baze 24-y gorodskoy bol'nitsy (glavnyy vrach V.P.Uspenskiy).

(GALL BLADDER--DISEASES)

POTEKAYEVA, M.A.; SMIRNOVA, K.F. (Moskva)

Histological diagnosis of unrecognized gall bladder cancer. Klin. med. 40 no.10:118-120 0 '62. (MIRA 15:12)

1. Iz kafedry obshchey khirurgii (zav. prof. A.N.Shabanov)
sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena
Lenina meditsinskogo instituta imeni I.M.Sechenova i patologoanatomicheskogo otdeleniya 24-y gorodskoy bol'nitsy (glavnyy
vrach V.P.Uspenskiy).

(GALL BLADDER--CANCER) (DIAGNOSIS, CYTOLOGIC)

MIKIRTUMOV, S.M.; VARNOVITSKIY, G.I.; SMIRNOVA, K.F.

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Diagnostic possibilities of intravenous cholography in the detection of diseases of the biliary tract and gall bladder. Sov.med. 26 no.12:25-28 D '62. (MIRA 16:2)

l. Iz kafedry obshchey khirurgii (zav. - prof. A.N. Shabanov)
sanitarno-gigiyenicheskogo fakul teta i kafedry rentgenologii
(zav. - prof. L.D. Lindenbraten) I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M. Sechenova.

(BILIARY TRACT—RADIOGRAPHY) (GAIL BLADDER—RADIOGRAPHY)

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651620013-6"

TYUTNEY, Ya.A.; GRACHEVA, N.A.; SIDEL'NIKOVA, T.M.; SMIRNOVA, K.I.; YUSHCHAK, T.F.

Long-range prognoses of fall and spring ice phases of the Baltic Sea. Trudy TSIP no.57:83-97 '57.

(Baltic Sea--Ice)

L 63386-65 EWT(1)/EWA(1)/EWA(b)-2 JK

ACCESSION NR: AP5020098

UR/0016/65/000/008/0104/0107 576.851.2.06 : 576.8.095.37

AUTHOR: Smirnova, K. I.

TITLE: Relationship between bacteriophage sensitivity and pathogenic properties of staphylococcus, cultures

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 8, 1965, 104-107

TOPIC TAGS: bacteriophage, staphylococcus, toxin

ABSTRACT: A study was made of 507 strains of staphylococci isolated from children with various diseases. These included 446 S. aureus and 61 S. albus strains. Of the former, 413 coagulated plasma, 33 did not. Only 6 S. albus strains coagulated plasma while 55 did not. Thus, the great majority of S. aureus coagulated plasma and formed toxin. In 99% of the cultures a correlation was noted between their plasma-coagulating capacity and toxigenicity. Among the S. albus cultures a predominant number of strains did not coagulate plasma or possess toxigenic properties Two sets of staphylococcal bacteriophages (international and Leningrad) were used

Card 1/2

L 63386-65 ACCESSION NR: AP5020098		2	
for typing purposes. Of 399 to chages, whereas among 68 non-to ber cent were in bacteriophage	group III and 33.6% in group of 5% were sensitive to the	up I of the international Leningrad bacteriophages	
40% in the G group, 28.7% in the rect relationship between plass phage sensitivity of staphyloc the nature of the plasma-coagu specifically, it is still unclare genetically related to the Orig. art. has: 2 tables.	ma-coagulating capacity, to coccus cultures. Referring clating white staphylococci lear whether they constitute e golden staphylocci, having	xigenicity, and bacterio- to S. albus, she said that is still obscure, that, an independent variety o merely lost their pigmen	t r
40% in the G group, 28.7% in the rect relationship between plass phage sensitivity of staphyloc the nature of the plasma-coagu specifically, it is still unchare genetically related to the Orig. art. has: 2 tables. ASSOCIATION: Leningradskiy pe	ma-coagulating capacity, to coccus cultures. Referring clating white staphylococci lear whether they constitute e golden staphylocci, having	xigenicity, and bacterio- to S. albus, she said that is still obscure, that, an independent variety o merely lost their pigmen	t r
40% in the G group, 28.7% in the rect relationship between plass phage sensitivity of staphyloc the nature of the plasma-coagu specifically, it is still unclare genetically related to the Orig. art. has: 2 tables.	ma-coagulating capacity, to coccus cultures. Referring clating white staphylococci lear whether they constitute e golden staphylocci, having	xigenicity, and bacterio- to S. albus, she said that is still obscure, that, an independent variety o merely lost their pigmen	t r

SMILMANA, K.M.; SURHABOTA, M.P. Effect of pure and mixed pine plantations on the dynamics of the composition of lysimeter waters. Pochvovedenie no.10:56-66 0 164.

1. Mogkovskiy gosudarstvennyy universitet imeni Lomonosova.

(MIRA 17:11)

CIA-RDP86-00513R001651620013-6" APPROVED FOR RELEASE: 08/24/2000

KRISHCHANOVICH, Viktor Yakovlevich; SMIRNOVA, K.M., red.; BELEH'KAYA, I.Ye., tekhred.

[Laboratory work in cartography; methodological directions for students of geographical faculties of universities] Laboratornye zaniatiia po kartografii; zadaniia i metodicheskie ukazaniia dlia zaniatiia po kartograficheskikh fakul tetov universitetov. Minsk, studentov geograficheskikh fakul tetov universitetov. Minsk, studentov geograficheskikh fakul tetov universitetov. (MIRA 13:9) Izd-vo Belgosuniv. im. B.I.Lenina, 1960. 112 p. (Cartography--Problems, exercises, etc.)

VOROPAYEVA, Anastasiya Vasil'yevna; PODKOVSHCHIKOVA, Yelana Ivanovna; SMIRNOVA, K.M., red.; BELEN'KAYA, I.Ye., tekhn. red.

[Dynamic series; textbook] Dinamicheskie riady; uchebnoe posobie. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia BSSR, 1961. 22 p. (MIRA 15:1) (Statistics)

SIMONOV, Vyacheslav Grigor'yevich; SAIRNOVA, K.M., red.; DUBOVIK,
A.P., tekhn. red.

[Matter and the electromagnetic field] Veshchestvo i elektromagnitnoe pole. Minsk, Izd-vo MVSS i PO BSSR, 1962. 126 p.

BAZHAN, Antonina Vasil'yevna; SMIRNOVA, K.M., red.; MORGUNOVA, G.M., tekhn. red.

[Statistics of capital construction] Statistika kapital'nogo stroitel'stva. Minsk, Izd-vo M-va vysshego, srednego go stroitel'stva. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia BSSR, 1963. 55 p. (MIRA 16:5)

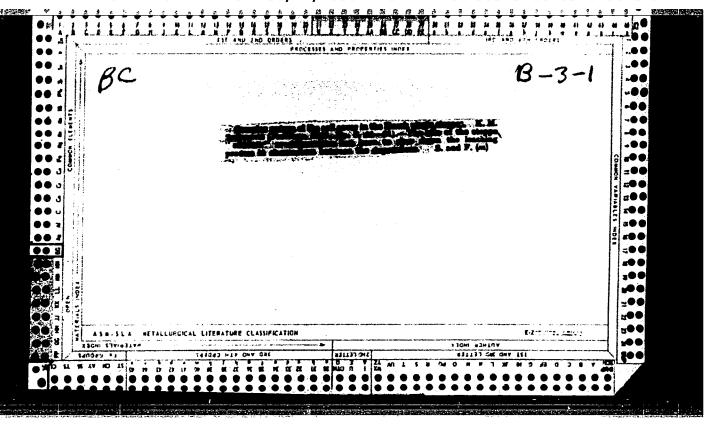
(Construction industry--Statistics)

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651620013-6"

REMEZOV, N.P. [deceased]; RODIN, L.Ye.; BAZILEVICH, N.I.; Prinimali uchastiye: ALEKSANDROVA, V.D.; BORISOVA, I.V.; BYKOVA, L.N.; ZONNA, S.V.; KARPOVA, V.G.; MINA, V.N.; NECHAYEVA, N.T.; PONYATOVSKAYA, V.M.; REMEZOVA, G.L.; SAMOYLOVA, Ye.M.; SMIRNOVA, K.M.; SUKHOVERKO, R.V.

Methodological instructions for studying the biological cycle of ash substances and nitrogen of terrestrial plant communities in the main natural zones of the temperate zone. Bot. zhur. 48 no.6:869-877 Je '63. (MIRA 17:1)

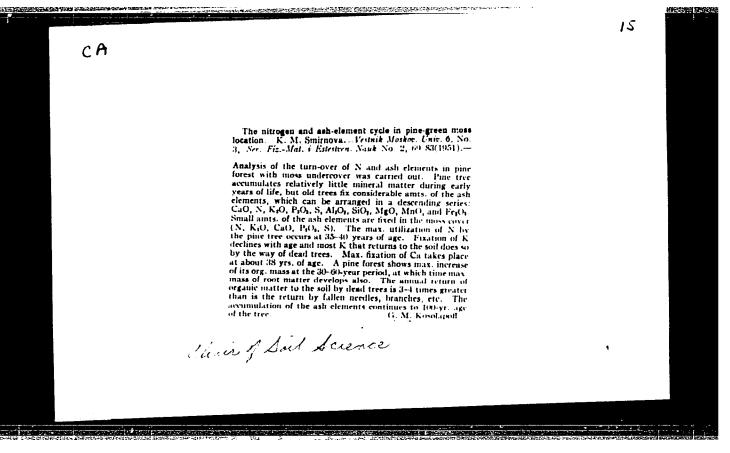
1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad i Pochvennyy institut imeni V.V. Dokuchayeva Ministerstva sel'skogo khozyaystva SSSR, Moskva.

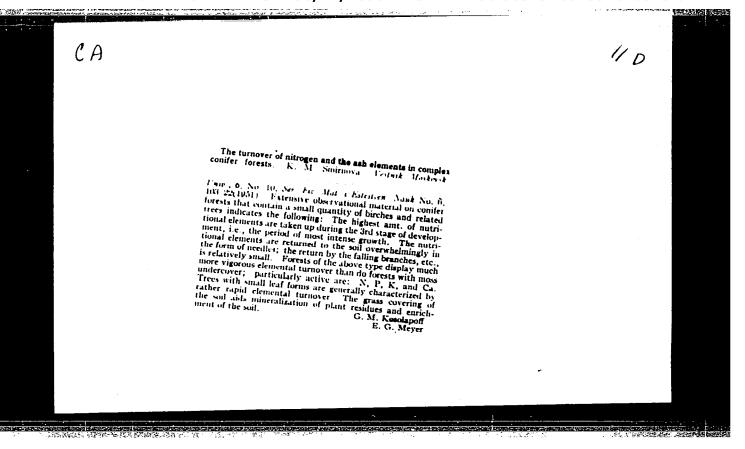


SMIRNOVA, K.M.

SEPTEMBER STATE SERVICE STATE STATE

Changes in several physicochemical properties of podzolized soils as a result of cultivation. Uchenye zapiski Moskov. Gosudarst. Univ. im. M.V. Lomonosova No.105. Pt. 2. 35-54 '46. (CA 47 no.21:11619 '53)





SMIRNOVA, K. M.

Mordovian A.S.S.R. - Linden

Consumption and cycle of nutritive elements in linden groves of the Mordvinian State Forest Preserve. Vest. Mosk. un. no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1957, Uncl.

MISHUSTIN, Ye.N.; SMIRHOVA, K.M., redaktor; SOMOROV, B.A., tekhnicheskiy redaktor

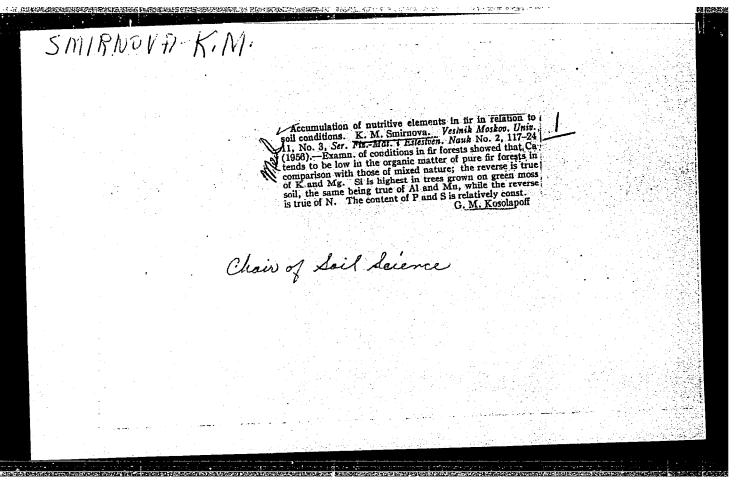
[Microorganisms and fertile soils] Mikroorganizmy i plodorodie pochvy. Moskva, Izd-vo Akademii nauk SSSR, 1956. 246 p.

(Micro-organisms, Mitrogen-fixing)

CHIMINYA, K. M.

"Seasonal Changes in the Properties of Soils of Needle and Leaf Forests," Lomonsov Lectures in 1956, Vest. Mosk. U., Physico Math and Natural Sciences Series, 4, No. 6, pp 147-160, 1956, Biological Scil Faculty

Translation U-3,05h,363



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of those elements which are involved in biological cycles, in the pine and the fir plus club moss forests, in those birch groves with mixed grass and those with widespread grasses and hemp nettle. The litter accumulation in the beds is 30-45 tons per hectare. The coniferous-moss plantations have an annual mineralization of

20-28% of the litter store, the mixed grass birch groves

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